

STATE of DELAWARE
SINGLE POINT OF CONTACT - SPOC
INTERGOVERNMENTAL REVIEW OF FEDERAL PROGRAMS
Office of Management and Budget
Haslet Building, 3rd Floor, Dover, Delaware 19901
(302) 739-4206

1. STATE APPLICATION IDENTIFIER:

SPOC use ONLY

Month

Reviewer

CC's

2. Applicant Project Title: **State Clean Diesel Grant**

3. Applicant Department: **Delaware Department of Natural Resources and Environmental Control**

4. Applicant Division / APU:

Division of Air & Waste Management

5. Applicant Address: **156 South State St, Kent County, Dover, DE 19901**

6. Contact Person: **Philip Wheeler**

7. Contact Person's Phone Number:

739-9402

8. Signature of Secretary or Agency Head (for state agencies) or Chief Administrator (for all other applicants)

9. Federal Grant Department: **U. S. EPA Region III**

10. Federal Sub-Agency:

11. Federal Contact Person: **Paula Krall**

12. Phone Number: (215) 814-2067

13. Address: **1650 Arch Street, Philadelphia, PA 19103-2029**

14. Federal Program Title: **Recovery Act Funding for National Clean Diesel Grant Program**

15. FEDERAL CATALOG NO:

66.039

(CFDA)

16. Project Description:

Retrofit Municipal and State Fleets with Clean Air Technology (Diesel Particulate Filters)

17. Will funds be utilized for any technology initiatives? ☐ Yes ☒ No If so, Business Case Number and brief project summary:

18. Measurable Objectives:

a. What were last year's objectives?

n/a

b. Were these objectives met? (If not, please explain why)

n/a

c. What are this year's objectives?

Reduce diesel soot emissions by 90% on 337 municipal and state heavy duty diesel trucks

Reduce diesel soot emissions by 90% on 57 school buses

Reduce diesel soot emissions by 20% on 26 non-road DNREC state park vehicles

(If more space is needed, please attach a separate sheet of paper)

19. Grant Period:	20. How many years has this project been funded?:	21. If this project was funded last year, how much federal money was awarded?:
From: 4/28/2009	n/a	
To: 9/30/2010		

22. Source of funding for this application:	Dollars
a. Federal grant	4,625,000
b. Other federal funds (Specify source of funding)	
c. Required state contribution (Specify source of funding)	
d. Discretionary state contribution (Specify source of funding)	
e. Required local contribution (Specify source of funding)	
f. Other non-federal funds (Specify source of funding)	
TOTAL	4,625,000

23. Budget by cost category and source:	Federal Funds	State Funds	Other Funds	Total Funds
Salaries & Fringe Benefits	58,631			58,631
Personal or Contractual Services	9,330			9,330
Travel	1,898			1,898
Supplies & Materials	7,890			7,890
Capital Expenditures	4,519,920			4,519,920
Audit Fees	13,875			13,875
Indirect Costs	13,456			13,456
Other				0
TOTAL	4,625,000	0	0	4,625,000

24. How many positions are required for the project? (Exclude casual/seasonal employees)			
Breakdown of positions(s)	Authorized in State Budget	New Positions Required	Total
Paid for out of federal funds	0	0	
Paid for out of General Funds	0	0	
Paid for out of state special funds	0	0	
Paid for out of bond/local/other funds	0	0	
TOTAL	0	0	0

25. PLEASE NOTE: On a separate piece of paper, please give position number, grade, yearly salary and percent of funding (federal, state, local, other) and the full-time equivalent for positions required. Please identify the new positions by placing an asterisk before the position title. If this grant funds positions within other departments, divisions and/or offices, please list them. If a position has been reallocated to or from another grant please indicate the grant source.

POSITIONS ARE CURRENT POSITIONS THAT WILL BE REALLOCATED BY TIME WORK! SEE ATTACHED PERSONNEL SALARIES

Factors

Indirect costs	0.3249
Audit	0.003

19. Grant Period: From: To:	20. How many years has this project been funded?:	21. If this project was funded last year, how much federal money was awarded?:
---	---	--

22. Source of funding for this application:	Dollars - Year 1	Dollars - Year 2
a. Federal grant		
b. Other federal funds (Specify source of funding)		
c. Required state contribution (Specify source of funding)		
d. Discretionary state contribution (Specify source of funding)		
e. Required local contribution (Specify source of funding)		
f. Other non-federal funds (Specify source of funding)		
SUB-TOTAL	0	0
TOTAL	0	

23. Budget by cost category and source:	Federal Funds		State Funds		Other Funds	Total Funds	
	Year 1	Year 2	Year 1	Year 2		Year 1	Year 2
Salaries & Fringe Benefits						0	0
Personal or Contractual Services						0	0
Travel						0	0
Supplies & Materials						0	0
Capital Expenditures						0	0
Audit Fees						0	0
Indirect Costs						0	0
Other						0	0
SUB-TOTAL	0	0	0	0	0	0	0
TOTAL	0		0		0	0	

24. How many positions are required for the project? (Exclude casual/seasonal employees)			
Breakdown of positions(s)	Authorized in State Budget	New Positions Required	Total
Paid for out of federal funds			0.0
Paid for out of General Funds			0.0
Paid for out of state special funds			0.0
Paid for out of bond/local/other funds			0.0
TOTAL	0.0	0.0	0.0

25. PLEASE NOTE: On a separate piece of paper, please give position number, grade, yearly salary and percent of funding (federal, state, local, other) and the full-time equivalent for positions required. Please identify the new positions by placing an asterisk before the position title. If this grant funds positions within other departments, divisions and/or offices, please list them. If a position has been reallocated to or from another grant please indicate the grant source.

19. Grant Period: From: To:	20. How many years has this project been funded?:	21. If this project was funded last year, how much federal money was awarded?:
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22. Source of funding for this application:	Dollars - Year 1	Dollars - Year 2	Dollars - Year 3
a. Federal grant			
b. Other federal funds (Specify source of funding)			
c. Required state contribution (Specify source of funding)			
d. Discretionary state contribution (Specify source of funding)			
e. Required local contribution (Specify source of funding)			
f. Other non-federal funds (Specify source of funding)			
SUB-TOTAL	0	0	0
TOTAL	0		

23. Budget by cost category and source	Federal Funds			State Funds			Other Funds	Total Funds		
	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3		Year 1	Year 2	Year 3
Salaries & Fringe Benefits							0	0	0	0
Personal or Contractual Services							0	0	0	0
Travel							0	0	0	0
Supplies & Materials							0	0	0	0
Capital Expenditures							0	0	0	0
Audit Fees							0	0	0	0
Indirect Costs							0	0	0	0
Other (In Kind)							0	0	0	0
SUB-TOTAL	0	0	0	0	0	0	0	0	0	0
TOTAL	0			0				0		

24. How many positions are required for the project? (Exclude casual/seasonal employees)			
Breakdown of positions(s)	Authorized in State Budget	New Positions Required	Total
Paid for out of federal funds		0.0	0.0
Paid for out of General Funds		0.0	0.0
Paid for out of state special funds		0.0	0.0
Paid for out of bond/local/other funds		0.0	0.0
TOTAL	0.0	0.0	0.0

25. PLEASE NOTE: On a separate piece of paper, please give position number, grade, yearly salary and percent of funding (federal, state, local, other) and the full-time equivalent for positions required. Please identify the new positions by placing an asterisk before the position title. If this grant funds positions within other departments, divisions and/or offices, please list them. If a position has been reallocated to or from another grant please indicate the grant source.



**AMERICAN RECOVERY AND
REINVESTMENT ACT of 2009**

National Clean Diesel Campaign

FUNDING FOR NATIONAL CLEAN DIESEL GRANT PROGRAM

WORK PLAN NARRATIVE AND BUDGET NARRATIVE TEMPLATE

State of Delaware

May 4, 2009

Project Title: State and Local Agency Diesel Retrofit Program

Organization name	Delaware Department of Natural Resources and Environmental Control
Project manager	Philip Wheeler
Address	156 South State Street, Dover, Delaware 19901
Phone	302/ 739-9402
Fax	302/ 739-3106
Email	Philip.Wheeler@state.de.us

Project Budget

EPA allocation	\$4,625,000
Total	\$4,625,000

Project Period

All work plans for the Recovery Act Funding for the State Clean Diesel Grant Program will run from the date of award through September 30, 2010. All activities in this work plan will focus on stimulating the American economy, preserving and/or creating jobs, and reducing diesel emissions.

Summary Statement

There will be four different municipal and state agencies and one school district participating in diesel retrofits projects in this grant application. The City of Dover has 11 vehicles and the City of Newark has 19 on-road vehicles. The Department of Natural Resources and Environmental Control has 7 on road vehicles and 26 off road vehicles and the Department of Transportation has 303 vehicles. The Colonial School District in New Castle, Delaware will have 60 vehicles retrofitted.

SCOPE OF WORK

Project Description

The following technology options will implemented in this work plan:

Retrofit Technologies:

- **Exhaust Controls:**

Exhaust Controls include pollution control devices installed in the exhaust system (such as oxidation catalysts and particulate matter filters), or systems that include crankcase emission control (like a closed crankcase filtration system).

For this project both active and passive diesel particulate filters (DPF) will be installed on all the applicable vehicles from the participating agencies, while diesel oxidation catalysts will be installed on those vehicles that have other issues related to installation or engine size such as the off-road DNREC equipment. The Colonial School District will have passive DPF or DOC installed and closed crankcase ventilation equipment. The cost range for passive and active DPF is \$8,000 to \$12,000. Because the subject vehicles have not been temperature data logged yet, an average cost of \$10,000 will be assigned to each on-highway vehicle DPF. All of the exhaust controls purchased will be either EPA or CARB verified equipment.

Fleets that will be impacted with the technologies (check all that apply):

- | | |
|--------------------------|--|
| X | School Buses |
| <input type="checkbox"/> | Transit Buses |
| <input type="checkbox"/> | Medium Duty Truck |
| X | Heavy Duty Truck |
| <input type="checkbox"/> | Marine Engine |
| <input type="checkbox"/> | Locomotive |
| X | Construction |
| <input type="checkbox"/> | Cargo Handling |
| <input type="checkbox"/> | Agriculture |
| <input type="checkbox"/> | Mining |
| <input type="checkbox"/> | Energy production |
| X | other: (please describe) – 26 Non-road DNREC State Park vehicles |

See attached spread sheet with vehicle information

Administrative Activities

A portion of the grant will be allocated to administer the projects. One full time equivalent position will be needed to manage the purchase, installation, and maintenance of the retrofit equipment. Another FTE for legal review of the necessary request for proposal and contract for performing filter maintenance for the school district will also be charged to the grant.

The project administration of the grant will include the development of the purchase orders, management of the competitive bid and contract process, development of the installation and maintenance schedule, oversight of the performance of the vendors and contractors and performance of evaluation reports to EPA on the overall projects.

Travel expenses are anticipated. Visits to existing sites are needed during the installation phase of the projects. Supplies will include outreach and training materials as well as specially designed decals that will be prominently displayed on each vehicle retrofitted.

Below is a summary of the administrative activities that are funded under this work plan. Delaware is anticipating spending 1% on administrative activities.

Time Line for the Diesel Retrofit Project –

2009

May – Data logging performed by vendor who has an existing contract with the Department to ascertain applicability of diesel particulate filters and diesel oxidation filters to the above mentioned agencies fleet.

June – Purchase order sent to vendor for the applicable number of diesel particulate filters, diesel oxidation catalysts and closed crankcase ventilation system.

July – Vendor orders diesel particulate filters, diesel oxidation catalysts and closed crankcase ventilation system from manufacturer. Lead time could be up to 10 weeks before delivery.

September – Vendor works with fleet manager for installation time of filters with a down time of 8 hours for each heavy duty vehicle. Diesel oxidation catalysts will have a shorter installation time.

October– December - Retrofits are completed

Project Budget

Budget Category	EPA Allocation
1. Personnel	41,415
2. Fringe Benefits	17,216
3. Travel	1,898
4. Supplies	7,890
5. Equipment	4,519,920
6. Contractual	9,330
7. Other (Audit)	13,875
Total Direct Charges	\$4,611,544
8. Indirect Charges	13,456
Total	\$4,625,000

Explanation of Budget Framework

Administrative Costs

Category	EPA
Personnel	\$41,415
Fringe	17,440
Travel	1,898
Supplies	7,890
Total	\$68,643
% of Total Grant	2%

1. Personnel

Category	EPA Allocation
Project Manager (Retrofits) @ \$27.14/hr x 1,500 hours	\$ 40,710
Legal Review of RFP and Contract @ \$47/hr x 15 hrs	\$ 705

2. Fringe Benefits

Fringe benefit costs are those costs for personnel employment other than the employees' direct income (i.e., employer's portion of FICA insurance, retirement, sick leave, holiday pay, and vacation cost) that will be paid by the grantee. Provide the total cost of fringe benefits unless treated as part of an approved indirect cost rate. Provide break-down of amounts and percentages that comprised fringe benefit costs, such as health insurance, FICA, retirement insurance, etc. Indicate all mandated and voluntary benefits to be supplemented with these funds

Category	EPA Allocation
Health Insurance – 2 FTE @ \$429 /mo x 12 mos	\$ 5,144
Other fringes* 1- FTE @ \$1,010/mo x12 mos	\$ 12,117
Other fringes* 1- FTE @ \$12/hr x 15 hrs	\$ 179

*includes Unemployment Ins, Pension, Workers Comp, FICA and Medicare

3. Travel

Category	EPA
<i>Site visit</i>	
Local Travel State Vehicle Rental – 27 days x \$34/day	\$946
<i>Meeting</i>	
Local Travel State Vehicle Rental – 28 days x \$34/day	\$952

4. Supplies

Category	EPA
Training supplies for equipment maintenance	\$3450
394 - 11x17 clean air decals for agency vehicles @ \$10 each	\$3,940
Copying and postage costs	\$500

5. Equipment

Project details of the budget for the four governmental agencies and one school district.

Diesel Vehicle Retrofit					
Vehicle/Equipment Description	Emission Control Device	Quantity	Labor	Unit Price	Extended
Heavy duty diesel on-highway vehicles including school buses	Passive/Active Diesel Particulate Filters	394		\$10,000	\$3,940,000
Installation			\$105/hour		298,200
Off-road vehicles and equipment	Diesel Oxidation Catalyst	26		\$1,000	26,000
Installation			\$105/hour		10,920
School buses	Closed Crankcase Ventilation System	57		\$800	45,600
Installation			\$105/hour		50,400
	Particulate Filter Cleaning Machine	3		\$12,000	48,000
	Spare Particulate filters	12		\$6,000	72,000
	Spare CCV filters	360		\$80	28,800
	Total Equipment Budget				\$4,519,920

6. Contractual

Category	EPA
Contractor: First year DPF and CCV maintenance service for 16 school buses and 6 DNREC vehicles (\$105/hr *4 hours per bus)	\$9,330

Delaware - Request for Proposal Procedures

All solicitation notices are published in the Delaware Capital Review, as required by law. Bidders are given 30 days to submit their proposals from the time the solicitation is published. A pre-bid meeting is required to clarify any questions about the solicitation for the bidders prior to the opening of the bids.

All Bids and Proposals shall be delivered in sealed envelopes and shall bear the name and address of the bidder, as well as the designation of the contract, on the outside envelope. Proposals forwarded by U.S. Mail shall be sent first class. All documents forwarded by U.S. Mail, delivery service, or hand delivered must be delivered to the address listed in the bid documents.

All bids and proposals will be accepted on or before the time and place set in the specifications. Bidder bears the risk of delays in delivery. Proposals received after the time set for public opening will be returned unopened.

7. Other

Category	EPA
Audit of Grant .003*\$4,625,000	\$13,875

8. Direct Charges: Categories 1-7: **\$4,611,544**

9. Indirect Charges (32.49% of personnel salaries): **\$13,456**

Indirect costs result from allocation of a grouping of administrative costs which are not easily identified as a direct cost.

Program Priorities

Health

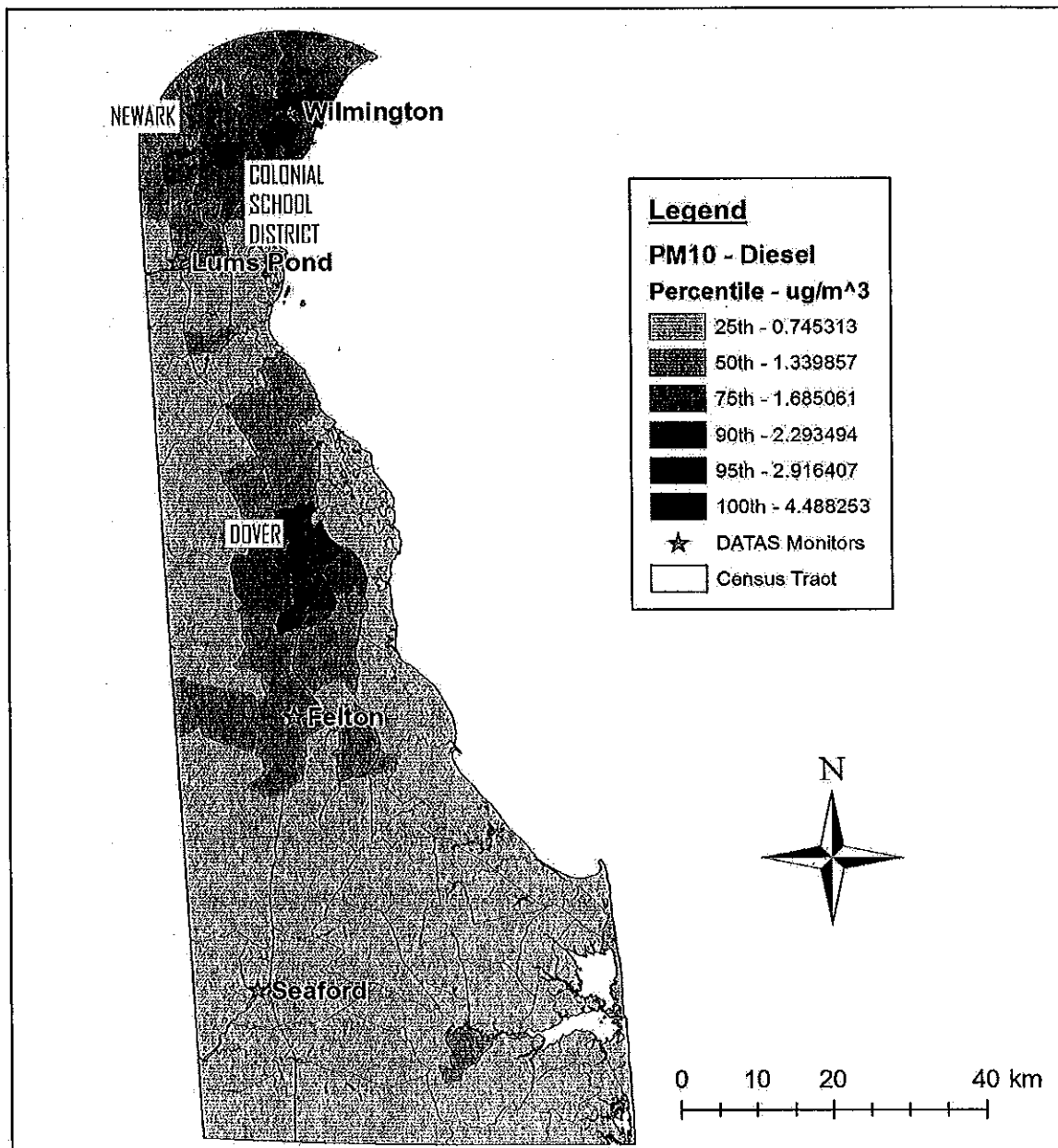
In one year Delaware intends to retrofit with diesel particulate filters three hundred and thirty seven heavy duty trucks that operate for the cities of Dover and Newark, the Department of Natural Resources and Environmental Control (DNREC) and the Department of Transportation. Twenty-six non-highway vehicles owned by DNREC will be retrofitted with diesel oxidation

catalysts. Finally, fifty-seven school buses in New Castle County will be retrofitted with diesel particulate filters and closed crankcase filters owned by the Colonial school district. The major benefit achieved from these retrofits will be the reduction of fine particulate matter, although there will be additional reductions in volatile organics and carbon monoxide. Estimates in emission reductions of these pollutants from baseline levels are expected to be approximately 20 tons per year of fine particulate matter, 64 tons per year of hydrocarbons and 208 tons per year of carbon monoxide. Health benefits to the school children and the communities in Wilmington may be realized in combination with other diesel emission reduction technology found in new truck and bus models. The incremental benefits of this project may be seen in fewer lung diseases such as asthma and emphysema as well as fewer emergency room visits during poor air quality days.

Anticipated Outputs and Outcomes		
Activities	Outputs	Short, medium, and long-term Outcomes
	Emission control technology installed = DPFs and CCV on 57 school buses	<p>Short-term: Successful installation of 57 DPFs</p> <p>Medium-term: Emissions Reduction = Reduce 6.9 tons/year of PM, , 27.1 tons/year of HC, 75.5 tons/year of CO</p>
	Emission control technology installed = DPFs on 337 State and City utility vehicles.	<p>Short-term: Successful installation of 337 DPFs</p> <p>Medium-term: Emissions Reduction = Reduce 9.4 tons/year of PM, , 29.8 tons/year of HC, 100.7 tons/year of CO</p>
	Emission control technology installed = DOCs on 26 State non-road vehicles	<p>Short-term: Successful installation of 26 DOCs</p> <p>Medium-term: Emissions Reduction = Reduce 3.6 tons/year of PM, , 7.4 tons/year of HC, 30.5 tons/year of CO</p>
	All of the above	<p>Long-term: Health Effects = Reduce asthma in children. Increase lung function and decrease cardiopulmonary disease Reduction of premature mortality rate.</p>

Below is a map of Delaware designating areas of various levels of concentrations of diesel particulate matter. The majority of vehicles that will be retrofitted in this project will operate cleaner in the areas designated as high levels of ambient concentrations of diesel particulate matter.

Modeled Ambient Concentrations Averaged by Census Tract PM10 - Diesel



"This map is taken from the 2003 Delaware Air Toxics Assessment Study (DATAS). DATAS assessment is for calendar year 2003 and includes the following components – monitoring, emissions inventory, modelling and risk assessment. DATAS modeling accounts for the assessment of a number of air toxic pollutants including the diesel particulate matter (DPM). DATAS estimates the

ambient DPM modeled concentrations by an integrated modeling approach that accounts for regional transport and spatially resolved concentrations due to local emissions. The former is obtained from the regional-scale modeling exercise and the latter from the local-scale modeling. Regional-scale modeling also accounts for the secondary component for some compounds, which is produced due to photochemistry. The DATAS modeled ambient DPM concentrations at the census tract level are displayed in the map. The concentrations are averaged over the census tracts and are expressed in terms of 25, 50, 75, 90, 95 and 100 percentiles; the corresponding concentrations can also be seen in the legend. The five DATAS monitoring locations are also displayed."

Air Pollution Produced By the Diesel Engines

The State of Delaware has been designated as non-attainment for the 8 hour ozone standard in all three counties. New Castle County is in non-attainment for the annual National Ambient Air Quality Standards for fine particulate matter and monitoring non-attainment for the daily standard for fine particulate matter. On-road diesel emissions contribute significantly to two major pollutants impacting air quality. A diesel truck engine's emissions consist mostly of particulate matter and nitrogen oxides, along with other toxic gases in smaller amounts.

The last inventory of air pollutants performed by the State of Delaware was completed for the calendar year of 2005. The tables below compare diesel emissions (NOx and PM 2.5) of class 6 and 7 trucks which are large portion of the fleet designated for retrofitting.

**State Wide Emission Inventory (2005)
NOx and PM 2.5 On-road Source Emissions
(Tons per Year)**

Air Pollutant	State Wide On-road Diesel Emissions		
	Class 6/7	All Diesel Vehicles	Percent of Total
NOx	101	2,929	4%
PM 2.5	3	63	5%

Program Experience:

Project Manager:

The project will be managed by Philip Wheeler, Planner IV, working for the Delaware Department of Natural Resources and Environmental Control. Previously, he has prepared requests for proposals for providing diesel particulate filters and closed crankcase filter equipment for the State of Delaware. The equipment was later installed by the winning bidder, Cummins Power Systems on 71 school buses for the Brandywine and Red Clay school districts in New Castle County. Twelve transit buses for the Delaware Transit Corporation were also outfitted with particulate filters. Mr. Wheeler prepared the RFP, reviewed the proposals and finalized the contract with Cummins. He also prepared the purchase orders for the equipment for DTC and Red Clay Schools. During the installation he monitored its progress to its finality. In 2008 he prepared an approved application for DERA State Grant funding and is working with the Port of Wilmington for retrofits on port equipment to fulfill the goals of the grant.

Mr. Wheeler has 15 years of air quality experience in the mobile emission sector, writing reports and modeling emissions.

Kevin Benson will be the Cummins Power Systems Emission Solutions/Retrofit Sales representative for the project. He has been with CPSI since May of 2000 and Retrofit Sales Manager since September of 2003. During this time he has been involved with approximately 300 diesel particulate filter (CRT/CCRT) and 200 Diesel Oxidation Catalyst turn key operations. Turn key meaning laying the ground work per retrofit project, fleet assessment, data logging/engine mapping, choosing the correct retrofit technology per fleet profile, design, pricing, bidding, ordering, installation, installation scheduling, training, and report filing per customers request. CPSI utilizes Cummins Inc. certified factory trained road technicians to perform retrofit installations at the customer facility.

Cummins has a contract with the DNREC to provide diesel emission reduction equipment for this project.

CPSI has been involved with sales, service, parts, installation and training of retrofit emission reduction technologies with the following entities:

Company/Agency

Retrofit Technology

MTA	DPF (CCRT) with installation, spare filters, and training
SEPTA	Spare DPF filters (CRT)
DART	Spare DPF filters (CRT), filter cleaning, and training
Washington Metro	DPF filters (CRT), installation, filter cleaning, and training
Unionville-Chadds Ford SID	DPF (CRT), installation, and training
Garnett Valley SID	DPF (CCRT), installation, and training
Upper Darby SID	DPF (CCRT) & DOC's, and training
North Penn SID	DOC's, with installation
SPC Corporation	DOC's, training
Montgomery County Schools	DOC's, with Installation
City of Baltimore Fire Dept.	DOC's
Fairfax Connector	DPF (CRT), installation, and training
City of Annapolis Fire Dept.	DOC with installation
Montgomery County Fleet Maint.	DOC with Installation
Montgomery County Fire Dept.	DOC with installation
MDETARSA	DOC with installation
Clean Air Council of PA.	DOC with installation

Data Collection

The proposed project does not involve environmentally related measurements or data generations that would need quality assurance and quality control plans and procedures as pursuant to 40 CFR 31.45.

Reporting

The State Program understands that reporting will at least be quarterly and additional reporting may be required for these special Recovery Act grants. Reporting requirements will be detailed in the grant Terms and Conditions.

Other

There are no cash or in-kind matches to the grant funding. However, the municipalities and the Department of Transportation will be expending their own resources to maintain the diesel particulate filters by cleaning them on an annual basis. The filters on the school district vehicles and vehicles owned by the Department of Natural Resources and Environmental Control will be maintained with funds in an account managed by DNREC. After the first year of the grant, filter cleaning and CCV filter changes will be paid for by DNREC.

SIGNATURES

Required signatures by the Department's fiscal officer are found on the documents accompanied by this work plan.

[illegible]

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed / Corrected Application	* 2. Type of Application <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision	* If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify) <input type="text"/>
---	---	---

* 3. Date Received: <input type="text"/>	4. Applicant Identifier: <input type="text"/>
---	--

5a. Federal Entity Identifier: <input type="text"/>	* 5b. Federal Award Identifier: <input type="text"/>
--	---

State Use Only:

6. Date Received by State: <input type="text"/>	7. State Application Identifier: <input type="text"/>
---	---

8. APPLICANT INFORMATION:

* a. Legal Name: <input type="text" value="State of Delaware"/>	
* b. Employer/Taxpayer Identification Number (EIN/TIN): <input type="text" value="51-6000279"/>	* c. Organizational DUNS: <input type="text" value="10-400-9399"/>

d. Address:

* Street1:	<input type="text" value="156 South State St"/>
Street2:	<input type="text"/>
* City:	<input type="text" value="Dover"/>
County:	<input type="text" value="Kent County"/>
* State:	<input type="text" value="Delaware"/>
Province:	<input type="text"/>
* Country:	<input type="text" value="USA"/>
* Zip / Postal Code:	<input type="text" value="19901"/>

e. Organization Unit:

Department Name: <input type="text" value="Department of Natural Resources & Environmental Control"/>	Division Name: <input type="text" value="Division of Air & Waste Management (3-0335)"/>
--	--

f. Name and Contact Information of Person to be Contacted on Matters Involving this Application:

Prefix: <input type="text" value="Mr"/>	* First Name: <input type="text" value="Philip"/>
Middle Name: <input type="text" value="Andrew"/>	
* Last Name: <input type="text" value="Wheeler"/>	
Suffix: <input type="text"/>	
Title: <input type="text" value="Planner IV"/>	
Organization Affiliation: <input type="text" value="State of Delaware"/>	
* Telephone Number: <input type="text" value="302/739-9402"/>	Fax Number: <input type="text" value="302/739-3106"/>
* Email: <input type="text" value="Philip.Wheeler@state.de.us"/>	

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

A. State Government

Type of Applicant 1: Select Applicant Type:

Type of Applicant 1: Select Applicant Type:

* Other (Specify)

* 10. Name of Federal Agency:

U. S. EPA

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

66.039

* 12. Funding Opportunity Number:

EPA-R3-001

* Title:

Recovery Act Funding for National Clean Diesel Grant Program

13. Competition Identification Number:

* Title:

N/A

14. Areas Affected by Project (Cities, Counties, States, etc.):

State of Delaware all counties

15. Descriptive Title of Applicant's Project:

Diesel retrofit of 57 school buses with particulate filters and closed crankcase filters

Diesel retrofit of 337 municipal and state vehicles with particulate filters

Diesel retrofits of 26 DNREC state park vehicles with diesel oxidation catalysts

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts of: First Congressional District

* a. Applicant Department of Natural Resources and Environment b. Program/Project State Clean Diesel Grant

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachments

17. Proposed Project: State Clean Diesel Grant

* a. Start Date: 6/1/2009 b. End Date: 9/30/2010

18. Estimated Funding (\$):

* a. Federal \$ 4,625,000

* b. Applicant

* c. State

* d. Local

* e. Other

* f. Program Income

* g. TOTAL \$ 4,625,000

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

- ☐ a. This application was made available to the State under the Executive Order 12372 Process for review on
- ☐ b. Program is subject to E. O. 12372 but has not been selected by the State for review.
- ☐ c. Program is not covered by E. O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

☐ Yes ☒ No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: Ms. * First Name: Jean

Middle Name: Christina

* Last Name: Haszard

Suffix:

Title: Senior Fiscal Administrative Officer

* Telephone Number 302-739-9903

Fax Number:

* Email: jean.haszard@state.de.us

* Signature of Authorized Representative:

* Date Signed:

Application for Federal Assistance SF-424

Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. National Clean Diesel Program	0	\$	-	\$	-
9.				\$	-
10.				\$	-
11.				\$	-
12. TOTALS (sum of lines 8-11)	\$	-	\$	-	\$
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 4,625,000	\$ 1,156,250	\$ 1,156,250	\$ 1,156,250	\$ 1,156,250
14. Non-Federal	\$ -				
15. TOTAL (sum of lines 13 and 14)	\$ 4,625,000	\$ 1,156,250	\$ 1,156,250	\$ 1,156,250	\$ 1,156,250
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF PROJECT					
(a) Grant Program N/A	FUTURE FUNDING PERIODS (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16.					
17.					
18.					
19.					
20. TOTALS (sum of lines 16-19)	\$	-	\$	-	\$
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:	\$4,611,544	22. Indirect Charges:		\$	13,456
23. Remarks:					

**U. S. Environmental Protection Agency
Applicant Fleet Description Spreadsheet**

**Section 1: Company and Project Manager Information**

Organization Name	First Name	Last Name	Job Title	Address	City	State	Email Address	Zip Code	Office Phone	Office Phone Ext
DNREC	Philip	Wheeler	Planner IV	156 South Street	Dover	DE	philip.wheeler@state.de.us	19801	302/739-9437	

Section 2: Project Information

Project Name	Entity	Target Fleet	Number of Vehicles	City	County	State	Region	Funding Amount Requested	Additional Funding Source	Additional Funding Amount	Benefit of Public Fleet
DERA Diesel Retrofits	DNREC	Other	420		New Castle and Kent Counties	DE	3				yes

Section 3: Vehicle Information:

Vehicle Type	Target Fleet	Vehicle Class	Vehicle Count	Engine Make	Engine Model	Engine Model Year	Retrofit Year	Technology	Current Fuel Type	Amount of Fuel Used	Annual Miles	Idling Hours	Horsepower
On Highway	Other	Class 6	1	Cummins	275	1994	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	175	2121	25%	275
On Highway	Other	Class 5	1	Ford	7.3	2000	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	392	3407	5%	275
On Highway	Other	Class 5	3	Duramax	6.6	2005	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	2223	19804	25%	300
On Highway	Utility Vehicle	Class 6	1	INTERNATIONAL	DT466E	1999	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	1417	9419		260
On Highway	Utility Vehicle	Class 7	1	INTERNATIONAL	DT466	2005	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	2600	10980		266
On Highway	Utility Vehicle	Class 8A	1	INTERNATIONAL	DT466	2004	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	1631	7171		260
On Highway	Utility Vehicle	Class 8A	1	INTERNATIONAL	DT466	2005	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	528	11080		260
On Highway	Utility Vehicle	Class 7	1	INTERNATIONAL	DT466	2004	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	1738	7859		260
On Highway	Utility Vehicle	Class 7	1	INTERNATIONAL	T444E	2001	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	2014	7106		230
On Highway	Utility Vehicle	Class 6	1	INTERNATIONAL	DT466	2006	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	1993	10948		260
On Highway	Refuse Hauler	Class 8A	1	INTERNATIONAL	DT466	2006	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	1575	5643		260
On Highway	Refuse Hauler	Class 8A	1	INTERNATIONAL	DT466	2004	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	3123	7617		260
On Highway	Refuse Hauler	Class 8A	1	INTERNATIONAL	HT570	2006	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	4484	7834		295
On Highway	Refuse Hauler	Class 8A	1	CUMMINS	ISM365V	2005	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	3136	11183		370
On Highway	Other	Class 7	1	CUMMINS	ISB46242068	2003	2009	Diesel Particulate Filter	Diesel (ULSD), 15 ppm	2552	11553		250

UsageRate Hours

Continuing Grants
NOTICE OF PLAN TO FILE GRANT APPLICATION
(Cover sheet to be provided with each proposed grant.)

Date sent to GWPRC _____ Due to Federal Agency

Draft 4/22/2009

Final 4/28/2009

Grant Project: Beginning date: 6/1/2009

Ending date: 9/30/2010

Current Request	\$4,625,000	Prior Year	n/a		
SAI#		DIV:	AWM	SEC:	MBU:
Grant Title: Clean Diesel National Grant					
Compare Grant Objectives to Department Priorities.					
USE OF ADDITIONAL/EXISTING DISCRETIONARY FEDERAL FUNDS Salaries & OEC's - Estimate Additional/Existing Equipment, Supplies, Contractual, Other - Estimate Additional/Existing					
POSITION RELATED REQUESTS: YES _____ NO <u>x</u> _____ New/Delete - Position(s) Requested - Complement changes %					
STATE MATCH REQUIRED %			GF\$: 0	ASF\$:	
Inkind Eligible			Yes	<u>No</u>	
State Match Available			<u>Yes</u>	No	
MAJOR PURCHASES: (Required over \$10,000) (Equipment, land, computers, software, server capacity, etc.): Diesel Particulate Filters Diesel Oxidation Catalysts					
SUPPORT NEEDS:		Additional		Existing	
Office Space:					
IRM Support Required:					
I/E Support:					
Other:					